



The U.S. Attorney General has determined that the publication of this periodical is necessary in the transaction of the public business required by the Department of Justice. Information, instruction, and disclaimers are published in the January issues.

– OCTOBER 2012 –

SELECTED REFERENCES

[The Selected References section is a compilation of recent publications of presumed interest to forensic chemists. Unless otherwise stated, all listed citations are published in English. Abbreviated mailing address information duplicates that which is provided by the abstracting service. Patents and Proceedings are reported only by their *Chemical Abstracts* citation number. For full text copies of any of the articles listed, you may email the DEA Library at dea.library@usdoj.gov.]

1. Brandt SD, Freeman S, Sumnall HR, Measham F, Cole J. **Analysis of NRG ‘legal highs’ in the UK: Identification and formation of novel cathinones.** *Drug Testing and Analysis* 2011;3(9):569-575. [Editor’s Notes: Presents title study. Contact: School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, Liverpool, United Kingdom.]
2. Ernst L, Krueger K, Lindigkeit R, Schiebel HM, Beuerle T. **Synthetic cannabinoids in “spice-like” herbal blends: First appearance of JWH-307 and recurrence of JWH-018 on the German market.** *Forensic Science International* 2012;222(1-3):216-222. [Editor’s Notes: Presents title study. Contact: Chemistry Department, Central NMR Laboratory, Technische Universitaet Braunschweig, Braunschweig 38106, Germany.]
3. Mohr S, Pilaj S, Schmid MG. **Chiral separation of cathinone derivatives used as recreational drugs by cyclodextrin-modified capillary electrophoresis.** *Electrophoresis* 2012;33(11):1624-1630. [Editor’s Notes: Presents title study. Contact: Department of Pharmaceutical Chemistry, Karl-Franzens-University Graz, Graz, Austria.]

4. Zuba D, Sekula K, Buczek A. **Identification and characterization of 2,5-dimethoxy-4-nitro-beta-phenethylamine (2C-N) - A new member of 2C-series of designer drug.** Forensic Science International 2012;222(1-3):298-305. [Editor's Notes: Presents title study. Contact: Institute of Forensic Research, Krakow 31033, Poland.]

Additional References of Possible Interest:

1. Chan K, Tan G, Wong RCS. **Gas Chromatographic Method Optimization and Statistical Validation for the Determination of Trace Impurities in Street Doses of Heroin.** Analytical Letters 2012;45(10):1156-1171. [Editor's Notes: This study uses manufacturing impurities and principle component analysis (PCA) to determine if 252 street samples of heroin originated from a common production batch. Contact: Department of Chemistry, University of Malaya, Kuala Lumpur, 50603 Malaysia.]
2. Choe S, Lee E, Jin G, Lee YH, Kim SY, Choi H, Chung H, Hwang BY, Kim S. **Genetic and chemical components analysis of Papaver setigerum naturalized in Korea.** Forensic Science International 2012;222(1-3):387-393. [Editor's Notes: Presents title study. Contact: Narcotics Analysis Division, National Forensic Service, Seoul, South Korea.]
3. Choe S, Kim S, Lee C, Yang W, Park Y, Choi H, Chung H, Lee D, Hwang BY. **Species identification of Papaver by metabolite profiling.** Forensic Science International 2011;211(1-3):51-60. [Editor's Notes: Presents title study. Contact: Narcotics Analysis Division, National Forensic Service, Seoul, South Korea.]
4. Soerensen LK, Hasselstroem JB. **A hydrophilic interaction liquid chromatography electrospray tandem mass spectrometry method for the simultaneous determination of γ -hydroxybutyrate and its precursors in forensic whole blood.** Forensic Science International 2012;222(1-3):352-359. [Editor's Notes: Presents title study. Contact: Section for Toxicology and Drug Analysis, Department of Forensic Medicine, Aarhus University, Aarhus N 8200, Denmark.]
5. Wang CC, Chen JL, Chen YL, Cheng HL, Wu SM. **A novel stacking method of repetitive large volume sample injection and sweeping MEKC for determination of androgenic steroids in urine.** Analytica Chimica Acta 2012;744:99-104. [Editor's Notes: A stacking capillary electrophoresis, repetitive large volume sample injection, and sweeping MEKC (rLVSI-sweeping MEKC) method was developed for the analysis of testosterone, epitestosterone, and epitestosterone glucuronide in urine. This method provides better sensitivity enhancement than the traditional large volume sample stacking-sweeping strategies. Contact: School of Pharmacy, College of Pharmacy, Kaohsiung Medical University, Taiwan.]

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THE DEA STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The schedule for the DEA State and Local Forensic Chemists Seminar is as follows:

March 11 - 15, 2013
June 10 - 14, 2013
September 16 - 20, 2013
November 4 - 8, 2013

The school is open only to forensic chemists working for law enforcement agencies. It is intended for chemists who have completed their agency's internal training program and have also been working on the bench for at least one year. There is no tuition charge. The course is held at the Hyatt Place Dulles North Hotel in Sterling, Virginia (near the Washington/Dulles International Airport). A copy of the application form is reproduced on the last page of this issue of *Microgram Bulletin*. Completed applications should be mailed to the Special Testing and Research Laboratory at 22624 Dulles Summit Court, Dulles, VA 20166. For additional information, email DEA-Forensic.Chemist.Seminar@usdoj.gov.

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DEA State and Local Forensic Chemist Seminar Application			
Name: (PRINT NAME EXACTLY AS IT IS TO APPEAR ON CERTIFICATE)		Title:	
Employer:			
Your Office Mailing Address (include city, state, and zipcode):			Length of Service:
Business Telephone: () -	Business Fax: () -	Date of Application:	
Email Address:			
Education			
College or University	Degree	Major	
Please Check Which Techniques or Equipment Are Used in Your Laboratory			
<input type="checkbox"/>	Color Tests	<input type="checkbox"/>	UV
<input type="checkbox"/>	Column Chromatography	<input type="checkbox"/>	IR
<input type="checkbox"/>	Microcrystal Tests	<input type="checkbox"/>	CE
<input type="checkbox"/>	Thin Layer Chromatography	<input type="checkbox"/>	GC/MS
<input type="checkbox"/>	GC	<input type="checkbox"/>	Other (please specify)
<input type="checkbox"/>	HPLC	<input type="checkbox"/>	Other (please specify)
Indicate Analytical Problem(s) Nominee Would Like to Have Covered:			
Choice of Seminar Dates:			
1st Choice:		2nd Choice:	
Laboratory Chief/Director:			
Printed Name: _____		Signature: _____	
Title: _____		Date: _____	
Phone: _____			